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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/518,996	12/21/2004	Shaily Verma	PU020307	7008	
24498 Thomson Lice	7590 04/13/2009 nsing LLC	EXAMINER			
P.O. Box 5312			MEHRPOUR, NAGHMEH		
Two Independer	ence Way NJ 08543-5312		ART UNIT PAPER NUMBER		
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			MAIL DATE	DELIVERY MODE	
			04/13/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)
10/518,996	VERMA ET AL.
Examiner	Art Unit
MELODY MEHRPOUR	2617

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The Period for Rep	MAILING DATE of this communication appe	ears on the cover sheet with the c	orrespondence ad	dress		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Educations on dim may be available under the provision of 37 CPR 11450, in no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to ruply within the act or estended prior of or reply will be application to become ASMACONED (3S U.S.C. § 133). and the statute of the st						
Status						
2a) ☐ This a 3) ☐ Since	onsive to communication(s) filed on $\underline{12/29}$, action is FINAL . 2b) \boxtimes This is this application is in condition for allowand in accordance with the practice under E .	action is non-final. ce except for formal matters, pro		e merits is		
Disposition of	Claims					
4)⊠ Claim 4a) O 5)□ Claim 6)⊠ Claim 7)□ Claim	n(s) 1.2 and 5-18 is/are pending in the app f the above claim(s) is/are withdraw n(s) is/are allowed. n(s) <u>-2.5-18</u> is/are rejected. n(s) are subjected to.	n from consideration.				
Application Pa	pers					
10)☐ The d Applic Repla	pecification is objected to by the Examiner rawing(s) filed on is/are: a) acceptant may not request that any objection to the docement drawing sheet(s) including the correction of the docement drawing sheet (s) included the docement drawing sheet (s) included sheet (s) inc	pted or b) objected to by the lifewing(s) be held in abeyance. See on is required if the drawing(s) is obj	a 37 CFR 1.85(a). ected to. See 37 C			
Priority under	35 U.S.C. § 119					
a)	wiledgment is made of a claim for foreign b) Some * c) None of: Certified copies of the priority documents Certified copies of the priority documents Copies of the certified copies of the priori application from the International Bureau e attached detailed Office action for a list of	have been received. have been received in Applicati ty documents have been receive (PCT Rule 17.2(a)).	on No ed in this National	Stage		
Attachment(s)						

1) Notice of References Cited (PTO-892)

 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/S5/08) Paper No(s)/Mail Date ___

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.
_____.

5) Notice of Informal Patent Application 6) Other: ___

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DETAILED ACTION

 In view of the Appeal brief filed on 12/29/08, PROSECUTION IS HEREBY REOPENED. A new grounds of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

/Dwayne D. Bost/ Supervisory Patent Examiner, Art Unit 2617

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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> the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1-2, 5-18, are rejected under 35 U.S.C. 103(a) as being unpatentable over Sundar et al. (US Publication 2003/0134638 A1) in view of Hurtta et al. (US Publication 2004/0228347 A1).

Regarding claims 1, 11-12, 17, Sundar teaches a method for registering a Wireless Local Area Network (WLAN) as a cellular network routing area (0054), comprising the steps of:

determining a location of a service request from a user within a cellular network which comprises a packet-based node (0055, 0056, 0058);

determining whether the location is in or near a WLAN access point (0066);

while servicing the request using the WLAN such that interworking between the WLAN and the cellular network is provided (0065, 0057, 0067, 0097).

Sundar does not specifically teach a method wherein maintaining packet data protocol (PDP) context while servicing the request using the WLAN (during the handover) to a different network. However, Hurtta teaches a method wherein maintaining packet data protocol (PDP) context while servicing the request using external network that interworking with the cellular network is provide. In case of handover, the new SGSN may check the APN OI received from the old SGSN in the PDP context information. The

different networks.

result will be <u>maintaining the PDP context</u> instead of sending it to the corresponding GGSN (S38), or deleting the <u>PDP context</u> instead of rejecting the request (S39) (0068). Therefore, it would have been obvious to ordinary skill in the art at the time the invention was made to combine the above teaching of Hurtta with Sundar, in order to provide battery conservation by reducing extra signaling, while seamlessly roaming between

Regarding claims 5, 14, Sundar teaches a method/system further comprising the step of setting a periodic routing area update timer value while in a WLAN coverage area to reduce signaling while a user is in the WLAN area (0063).

Regarding claim 6, Sundar teaches a method as recited in claim 1, further comprising the step of establishing packet switched signaling connection through the PDP context when existing the WLAN (0056, 0071).

Regarding claims 7, 10, Sundar teaches a method as recited in claim 1, further comprising the step of: controlling the loading of cellular cells by shifting user traffic service to WLANs (0055, 0056).

Regarding claim 8, Sundar teaches a method as recited in claim 1, wherein the interworking between the cellular network and the WLAN is provided by: Application/Control Number:

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uniquely identifying the WLAN as a routing area of the cellular network; and once identified, setting a routing area update timer to reduce a number of routing area updates to the cellular network (0071, 0092).

Regarding claim 9, 15, Sundar fails to teach a method as recited in claim 1, wherein the step of maintaining the PDP context includes maintaining the PDP context to reduce handoff delay while re-entering the UMTS network. However, Huttra teaches a method as recited in claim 1, wherein the step of maintaining the PDP context includes maintaining the PDP context to reduce handoff delay while re-entering the UMTS network (0068). In case of handover, the new SGSN may check the APN OI received from the old SGSN in the PDP context information. This OI is used according to FIG. 3 starting from step 33. The result will be maintaining the PDP context instead of sending it to the corresponding GGSN (S38), or deleting the PDP context instead of rejecting the request (S39) (0068). Therefore, it would have been obvious to ordinary skill in the art at the time the invention was made to combine the above teaching of Hurtta with Sundar, in order to provide battery conservation by reducing extra signaling, while seamlessly roaming between different networks.

Regarding claim 10, Sundar teaches a method as recited in claim 1, further comprising the step of enabling cellular service providers to control the loading of cells by shifting

users to WLANs by changing routing area identifiers of the users to that of a WLAN coverage area (0014, 0071, 0092).

Regarding claim 13, Sundar teaches a system as recited in claim 11, further comprising a unique routing area identifier, which identifies the WLAN in the cellular network (0095).

Regarding claim 16, Sundar teaches a system as recited in claim 11, wherein the cellular network includes a Universal Mobile Telecommunications System (UMTS) (0098).

Regarding claim 18, Sundar teaches a system as recited in claim 11, wherein the cellular network learns if a user is in a WLAN coverage area via a routing area identifier (RAI) update message (0020-0027).

Response to Arguments

Applicant's arguments with respect to claims 1-2, 5-18 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

4. Any responses to this action should be mailed to:

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Naghmeh Mehrpour whose telephone number is 571-272-7913. The examiner can normally be reached on 8:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne Bost can be reached (571) 272-7023.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Naghmeh Mehrpour/

Primary Examiner, Art Unit 2617

April 2, 2009